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TITLE: PURIFICATION OF ENZYME

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INVENTOR-INFORMATION:

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ABSTRACT:

PURPOSE: To obtain a desired enzyme quickly in high purity and in high yields, by treating a combined body of a polyamine and a substrate with the curde solution of the enzyme, followed by bringing the combined body into contact with a solution containing a salt or its mixture with a polyamine to extract the enzyme.

CONSTITUTION: A combined body of a substrate, e.g., agarose, cellulose, activated by an active reagent, e.g., cyanogen bromide, epichlorohydrin, etc. and a polyamine shown by the formula I or II (x and y are 2-16) is treated with a crude solution of an enzyme in a pH of 6.5-8.0 having specifically a polyamine, e.g., putrescine oxidase, spermidine dehydrogenase, etc. at 0-5°C so that the enzyme is adsorbed on the combined body. The combined body is brought into contact with 0.01-1.0mol of an aqueous solution of a water-soluble alkali metal salt, e.g., NaCl, KCl, etc. or its mixture with 0.5-10 mil mol of the polyamine to dissolve the desired enzyme.

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